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Approved For Release 2004/05/05 : CIA-RDP78B05171A000600010082-3

NPIC/TSSG/RED/SDB-015-70

17 March 1970

MEMORANDUM FOR THE RECORD

SUBJECT: Preliminary Engineering Report on Repowering of [redacted]
[redacted] dated February 1970

1. The "single piece of equipment" referred to on Pg. 21 is apparently a 1540 Light Table. In this respect, I consider valid the comment by [redacted] that operation of a table with all possible motorized drives operating at the same time is "unrealistic".

2. Consider an analogy. You do not plug every lamp in your home into one wall outlet. You realize that the circuit has a limitation, that if you exceed that limitation, you pay the penalty of blowing a fuse, and you respect that limitation. If you play games with the system by substituting pennies for fuses, you face the additional penalty of a fire. Normal operating procedure is to stay well within the limits of the system. It is "unrealistic" to do otherwise.

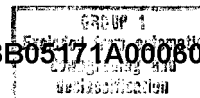
3. Similar considerations apply to the light tables. I submit that to operate this equipment with every possible motorized drive turned on at the same time is mistreatment and abuse of the equipment. Indeed, if someone operates the equipment in such manner, they should blow a fuse; and this is small penalty for playing games with the system. Such operation is "unrealistic". Again, normal operating procedure for the system is to stay well within the limits of the system. Normal, realistic operation of the 1540 tables requires something less than 15 amperes of line current.

4. [redacted] is apparently basing its estimates on the maximum possible line current demand of a light table. The tables are fused for 20 amperes and a 20 ampere circuit is required for each table. However, to base air conditioning demand on the maximum current requirement of a table with all motorized drives turned on at the same time is "unrealistic" for the reasons stated above. [redacted] apparently further assumes that all 360 tables are turned on at the same time. It would seem that the probability is small indeed that 360 tables would be operated simultaneously so as to demand maximum line current. Even allowing that such operation could occur, this peak demand would last only for some 15 or 30 seconds--whatever time it takes to fully elevate and/or fully tilt the table. That is, of course, unless all 360 tables were immediately and simultaneously reversed in their maximum cycle of

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SUBJECT: Preliminary Engineering Report on Repowering of [] by []
[] dated February 1970

operation. This is something worse than "unrealistic". In view of this, the estimate by [] of demand on the air conditioning system appears generous and should be able to accommodate some additional future equipments.

[]
Project Monitor
NPIC/TSSG/RED/SDB

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